

## **TIDE AND WAVE POWERED GENERATION APPARATUS**

### **ABSTRACT OF THE DISCLOSURE**

A tide and wave powered generation apparatus includes a piping system, a pump station, a low level reservoir, a high level reservoir and a hydraulic turbine generator. The piping system connects the low level reservoir, the pump station, the high level reservoir, the hydraulic turbine generator and the low level reservoir in sequence. The pump station comprises an oil pump engaged with a chain, each end of which is respectively connected with a buoyancy plate and a counter balance weight. When a serial of waves rush to the seashore, the waves surge up and down that makes the buoyancy plate move up and down with the waves. The chain brings the counter balance weight movements in the direction opposite to the buoyancy plate. The movement of the chain drives the pump station to pump water from the low level reservoir to the high level reservoir. Then the water of the high level reservoir is conducted via the piping system to impact onto the blades of the hydraulic turbine generator to generate electricity. The outflow water from the hydraulic turbine generator is conducted via the piping system to the low level reservoir.